



**7th Pak-Turk International Conference on Emerging Technologies
in the Field of Sciences and Engineering
14-15, October 2024**

Program Schedule Day 1

Inauguration Program Schedule (14 October 2024) Auditorium UW/ Zoom		
08:55	Arrival of Chief Guest	
08:55	National Anthem of Pakistan & Türkiye	
09:00	Recitation from Holy Quran	
09:05	Welcome Address by Secretary of the conference	Dr. Faisal Nawaz
09:10	Introductory Speech by Vice Chancellor, UW	Prof. Jameel Un Nabi
09:15	Keynote Speech: 1	Prof. Takehiko Saito
09:35	Keynote Speech: 2	Prof. Nihal Buyukcizmeci
09:55	Keynote Speech: 3	Prof. Syed Habib Bukhari VC KUM
10:15	Address by the Chief Guest	Chief Guest
10:30	Presentation of Shields	
10:35	Group Photo	
Group Photo and Tea Break 10:35-11:00 o'clock		
DAY 1 (14 October, 2024)		
Technical Session 1 (Day 1) Natural Sciences (Physics) Venue: Auditorium UW / Zoom		
Session Chair Prof. Uzma Ghazanfar		
Moderator: Dr. Matti Ullah Shah		
Keynote Talks		
11:01-11:20 AM	TALYS Nuclear Reaction code usage in Nuclear Reactions and Nuclear Models	Prof. İsmail SARPÜN (Keynote Speech)
11:20-11:40 PM	A Framework approach to strengthen higher education in the field of Marine Information and Engineering	Prof. Muhammad Abid (Keynote Speech)
11:40-12:00 PM	Wormhole Solutions admitting Karmarkar Condition	Prof. Muhammad Sharif (Keynote Speech)
12:00-12.20 PM	Communicating physics from the laboratory to the playground	Prof. Sabieh Anwar (Keynote Speech)
12:20-12.40 PM	Next-Generation Hybrid Energy Storage Devices: Overcoming Challenges and Exploring Opportunities	Prof. Zahir Iqbal (Keynote Speech)
12:40-01.00 PM		Prof. Yasar Ayaz (Keynote Speech)
Lunch/Prayer Break 01:00-1.55 PM		



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Technical Session 2 (Day 1 Parallel) Computer Engineering Venue: Seminar Hall-UW/ Google Meet		
Session Chair: Prof. Wazir Zada Khan Moderator: Dr. Sohaira Ahmad		
11:00-11:20 AM	Transparent EM shielding: A Glimpse into Optically Transparent Frequency Selective Surfaces	Prof. Junaid Mughal (Keynote Speech)
11:20-11:40 AM	AI Smart Mart	Mr. Muhammad Okasha
11:40-11:55 AM	Blockchain-Based Federated Learning for Privacy-Preserving Multi-Modal Medical Data with Secure Aggregation	Mr. Jamshaid Basit
11:55-12:10 AM	Quantum-Assisted Transfer Learning: A Hybrid Approach to Urdu Sign Language Recognition	Ms. Syeda Aqsa Habib Gilani (Online)
12:10-12:25 PM	Design of Power Management Unit for uninterruptible power to Signaling System in remotely located railway stations in Pakistan	Ms. Syeda Ezza Haider
12:25-12:40 PM	Event Venue Finder	Mr. Hammad Siddique
12:40-12:55 PM	AI-Driven Anomaly Detection and Mitigation Framework for Enhanced Security in Software Defined Networks	Mr. Muhammad Irfan (Online)
Lunch/Prayer Break 01:00-1.55 PM		

Technical Session 3 (Day 1 Parallel) Engineering Sciences, Venue: LR-35/ Google Meet		
Session Chair: Prof. Shahab Khushnood Moderator: Dr. Zahid Iqbal		
11:01-11:15 AM	Comparative Analysis of Power Flow Simulations in the Test 10-Bus Power System Using Power World Simulator, ETAP, and PSS Software	Mr. Yousaf Ali (Online)
11:15-11:30 AM	Application of Wavelet Transform in Fault Detection of Distribution Line	Engr. Faiza Shaikh (Online)
11:30-11:45 AM	Optimization of Prosumer Based Demand Side Management (DSM) by Using K-Means Clustering Algorithm	Mr. Yousaf Ali (Online)
11:45-12:00 PM	Photovoltaic System based border Markets	Engr. Muhammad Muneeb Khan
12:00-12:15 AM	Analysis and Optimization of Protection Systems for Power System Components	Mr. Yousaf Ali (Online)
12:15-12:30 PM	Ideal Tilt angle calculation of Photovoltaic module to enhance Sindh Power Generation	Engr. Muhammad Muneeb Khan
12:30-12:45 PM	A Comprehensive Review of Fin Geometries and Their Impact on Heat Exchanger Performance	Mr. Waqas Javid
12:45-01:00 PM	A Review of Machine Learning Techniques in Vibration Analysis for Early Bearing Fault Detection	Mr. Waqas Javid
Lunch/Prayer Break 01:00-1.55 PM		



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Technical Session 4 (Day 1 Parallel) Civil Engineering (Venue: LR-37)/ Google Meet		
Session Chair: Prof. İsmail SARPÜN		
Moderator: Dr. Sadiq Usman		
11:00-11:15 AM	Reviving Tradition: Restoration of Katas Raj Temple's Historic Mortar	Mr. Ahmed Raza
11:15-11:30 AM	Status of Occupational Health & Safety Culture in the Construction Industry of Pakistan	Engr. Shafqat Abbas
11:30-11:45 AM	Synergistic Effects of Supplementary Materials and Fiber Reinforcement	Mr. Muhammad Saveed Ali (Online)
11:45-12:00 PM	Synergistic Effect of Waste Foundry Sand and Lime as Partial Replacement of Cement in Cement-Bentonite Slurry	Mr. Arsalan Raza
12:00-12:15 AM	A Comprehensive Review of the Status of Green Construction in Pakistan	Mr. Barkat Ali (Online)
12:15-12:30 PM	Utilizing Mangla Reservoir Silt as Partial Clay Replacement in Bricks: A Sustainable Approach to Desilting	Prof. Anwar Khitab (Online)
12:30-12:45 PM	Nearly Zero Energy Buildings – A Case Study in Pakistan	Mr. Muhammad Taimoor Ehtizaz
12:45-01:00 PM	Key Players in PPP Road Infrastructure Projects	Mehar Ali
Lunch/Prayer Break 01:00-1.55 PM		

Technical Session 5 (Day 1) Natural Sciences, Venue: Seminar Hall/ Google Meet		
Session Chair: Prof. Dr. Nihal Buyukcizmeci		
Moderator: Dr. Matti Ullah Shah		
Keynote Talks		
02:00-02:20 PM	Investigation of Beta Decay Log ft Values with Schematic Model Approach	Prof. Necla CAKMAK (Keynote Speech)
02:20-02:40 PM	A new aspect of nanomaterial using in electrolytes for Solid Oxide Fuel Cell	Prof. YASİN POLAT (Keynote Speech)
02.40-03:00 PM	Study the Effect of Pairing Gaps on Astrophysical Important Nuclei using the pn-QRPA Model	Mr. Arslan Mehmood
03:00-03:15 PM	Study of β -decay properties of proton-rich odd-A Sn isotopes	Mr. Wajeaha Khalid
03:15-03:30 PM	Reinvestigation of 58,60,61,62,64Ni (p, γ) 59,61,62,63,65Cu In Stellar Environment of Type 1 Supernovae	Mr Saif Ullah
03:30-03:45 PM	Investigation of β decay properties of very neutron-rich Kr to Tc nuclei	Mr. Abuzar
03:45-04.00 PM	A Review on the Synthesis Techniques for the Photothermal Materials	Ms. Ayesha Ramzan



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Technical Session 6 (Day 1)		
Computer Sciences/ Computer Engineering, Venue: LR-35/ Google Meet		
Session Chair: Prof Muhammad Shakeel		
Moderator: Dr. Haris Masood		
02:00-02:15 PM	HSK Wallet: A User Friendly Blockchain Application	Mr. Kashif Iqbal (Online)
02:15-02:30 PM	Design and Fabrication of Smart Helmet to Overcome Road Accidents	Mr. Saeed Afridi
02.30-02:45 PM	Enhancing OSPF Authentication Using Quantum Key Distribution and Software Defined Networking	Mr. Madam Hussain Shah
02:45-03:00 PM	Distributed Anomaly Detection in Networks Using Machine Learning and Federated Learning	Mr. Muhammad Irfan (Online)
03:00-03:15 PM	Vehicle And Driver Recognition for Access Control	Mr. Kashif Iqbal (Online)
03:15-03:30 PM	Innovative Framework for IoV: Enhancing Security, Privacy, and Efficiency through Blockchain, Federated Learning, and Differential Privacy in IoV	Mr. Muhammad Adnan

Technical Session 7 (Day 1)		
Natural Sciences/ Chemical Engineering, Venue: LR-37/ Google Meet		
Session Chair: Dr. K. S Baig		
Moderator: Dr. Saleem Iqbal		
02:00-02:15 PM	A Novel Approach of Self Decisive Algorithm for two-step quasi-Newton Methods	Dr. Farah Jaffar
02:15-02:30 PM	Intelligent Computing Approach for Investigating Hybrid Nanofluid Flow over a Stretching Sheet	Mr. Aamra Urooj.
02.30-02:45 PM	The mathematical modeling for potentio dynamic electrochemical acetaldehyde conversion to glioxal	Mr. Volodymyr V. Tkach (online)
02:45-03:00 PM	The Commercial Efficiency of Pressure Swing Distillation of Ethanol-Ethyl Acetate Mixture	Mr. Ammar Abbas Ali Saif (Online)
03:00-03:15 PM	The mathematical modeling for tobacco-specific nitrosamines electrochemical determination in tobacco products	Mr. Volodymyr V. Tkach (online)
03:15-03:30 PM	Machine Learning and Experimental Hybrid Strategy for Optimized Nitrogen Release Urea Fertilizers	Ms. Mahzeb Saleem
03:30-03:45 PM	Innovative Pathways for Sustainable Fuel Production: Converting BioCrude into Renewable Petrol & Diesel	Mr. Nouman Mustafa
03:45-04:00 PM	Effect of ZnO NPs coating on DAP fertilizer efficiency for enhancing Soil available nutrients	Ms. Zumrah Rehman (Online)



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Technical Session 8 (Day 1 Parallel) Engineering/ Natural Sciences, Venue: LR-38/ Google Meet		
Session Chair: Prof. M Asghar Saqib		
Moderator: Dr. Kashif Iqbal		
02:00-02:15 PM	Modified Median Quartile Ranked Set Sampling for estimation of population mean	Dr. Muhammad Ahmed Shehzad
02:15-02:30 PM	Modified Quartile Ranked Set Sampling for estimation of population mean. Innovative	Ms. Anam Nisar
02:30-02:45 PM	Using of double sampling in estimating the finite population coefficient of variation using two auxillary variables	Mr. Nasir Iqbal
02:45-03:00 PM	Innovative Design for Sustainable Three-Wheeled Reverse Trikes: Advancing Safety, Efficiency, and Eco-Friendly Solutions	Mr. Mehmood ul Hassan
03:00-03:15 PM	Geotechnical Evaluation of Desert Sand and its improvements for Sustainable Developments	Mr. Muhammad Zeeshan
03:15-03:30 PM	Investigating the factors Enhancing the Industrialized Building System (IBS) in Construction Industry of Karachi Sindh, Pakistan	Engr. Abdul Rehman,
03:30-03:45 PM	Automated procedure of real-time flood forecasting in data-scare Swat River basin, Pakistan by integrating SWAT and HEC-RAS models	Ms. Alisha Qureshi
03:45-04.00 PM	Energy-Water Nexus for sustainability: A case study for Karachi focusing on Solar PV potential	Mr. Usman Umer

Posters Session Day 1 (Parallel) E-Hall-UW		
01.00-3.00 PM	Poster Presentation	All Poster Presenters



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**DAY 2 (15 October, 2024)
Program Schedule Day 2**

Technical Session 9 (Day 2 Parallel) Natural Sciences (Physics) Venue: Seminar Hall UW/ Zoom		
Session Chair: Prof. Necla CAKMAK		
Moderator: Dr. Matti Ullah Shah		
09:00-09:20 AM	Nucleation and growth in Ni electrodeposition: polycrystalline thin films and multilayers	Prof. Walther Schwarzacher (Keynote Speech)
09:20-09:35 AM	X-ray Diffraction Analysis of Zinc Sulphide Quantum Dots (ZnS QDs) using Scherrer and Williamson-Hall Methods	Mr. Rao Uzair Ahmad
09:35-09:50 AM	Remediation Techniques of Petroleum-Contaminated Soils and its impact on human health	Ms. Rubab Amir
09:50-10:10 AM	The Rise of Graphene Oxide: A Review on Synthesis, Properties and Recent Advances	Ms. Laiba Sheraz
10:10-10:25 AM	Examining the Effect of Crystal Dead Layer on System Performance in SPECT System	Prof. Tuncay Bayram (Online)
10:25-10:40 AM	Investigation of O(6) behavior of 188-204 Hg Isotopes within the IBM-1 Model	Prof. Mahmut BOYUKATA (Online)

Technical Session 10 (Day 2-Parallel) Biotechnology/ Microbiology/ Environmental Sciences Venue: LR 35/ Google Meet		
Session Chair: Prof. Shumaila Naz		
Moderator: Dr. Muhammad Idrees		
09:00-09:30 AM	Cultivating Earth's Future: Engineering Crop Microbiomes and designing soil amendments for sustainable crop improvement under climatic change scenario	Dr. Noshin Ilyas (Keynote Speaker) (Online)
09:30-09:50 AM	Evaluation of Total Aflatoxin Content in Dry Fruits Samples	Dr. Rakhshinda Sadiq (Online)
09:50-10:10 AM	Synthesis and Characterization of Hydrogels for Speedy Wound Healing in Diabetic Patients	Ms. Nisha Iqbal (Online)
10:10-10:20 AM	Synthesis of chitosan nanoparticle for targeted Nano-therapy against Receptor tyrosine kinases in Glioblastoma Multiform: <i>In vitro</i> assays	Ms. Fareeha Khalid Ghori
10:20-10:30 AM	Chemical analysis of essential oil of <i>Rosa bourboniana</i>	Mr. Aman Ullah Khan
10:30-10:40 AM	Optimizing rice plant growth with nanocoated urea	Ms. Arva Mehak
10:40-10:50 AM	Revolutionizing wheat (<i>Triticum aestivum</i> L.) cultivation with Nano-Coated urea for enhanced growth	Ms. Shaher Bano
10:50-11:00AM	Synthesis And Characterization of <i>Aloe vera</i> -Curcumin Loaded Zein Nano Fibrous Smart Dressing for Diabetic Foot Ulcer	Ms. Heer Memon (Online)



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11:00-11:10 AM	Nano-enhanced flood resilience in wheat (<i>Triticum aestivum L</i>) with amended plant growth regulators.	Ms. Dil E Savera Kazmi
11:10-11:20 AM	Screening Soil Microbes for Cellulase Enzyme Production and Identification	Ms. Ayesha Tayyaba
Tea Break 11:30 AM		

Technical Session 11 (Day 2) Natural Sciences (Chemistry)/ Chemical Engineering Venue: LR-37/ Google Meet		
Session Chair: Dr. Saleem Iqbal		
Moderator: Dr. Fawad Khan		
09:00-09:15 AM	2D Structural Interpretation Integrated with Petrophysics, Attribute Analysis and Seismic Inversion of Rajian Area Upper Indus Basin, Pakistan	Mr. Muhammad Talha (Online)
09:15-09:30 AM	Novel AIE and Solvatochromism Exhibiting TPE Based Organic Fluorophore with Excellent Emission Properties in Solid and Solution Phase for Latent Fingerprint and Metronidazole Sensing in Real Samples	Mr. Hasher Irshad
09:30-09:45 AM	Graphene incorporated Cellulose Acetate based Mixed Matrix Membrane for Carbon dioxide Sequestration	Ms. Shahmeen Sattar
09:45-10:00 AM	Cellulose Based Membranes Doped with Zirconium Dioxide (ZrO ₂) Nanoparticles for Water Desalination	Ms. Saman Khan
10:00-10:15 AM	Comprehensive Review: Synthesis and Detailed Characterization of Sulfonamide Derivatives with Potent Biological Activities	Ms. Hifza Basharat
10:15-10:30 AM	A Review of Hydrogel Based pH-Sensors	Mr. Muhammad Ramzan
10:30-10:45 AM	Magnetite nanocomposites: A promising candidate for removal of contaminant from aqueous environment	Dr. Aamna Balouch
10:45-11:00 AM	Synthesis and characterization of Ni-doped ZnO Nanoparticles for potential antibacterial activity against <i>E.coli</i> .	Ms. Samreen Bibi
Tea Break 11:30 AM		



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Technical Session 12 (Day 2) Natural Sciences (Chemistry)/ Chemical Engineering Venue: LR-38/ Google Meet		
Session Chair: Dr. Humaira Razzaq Moderator: Dr. Zaheer Ahmad		
09:00-09:15 AM	Investigation of the Tensile Properties of EPDM Based Nanocomposites Reinforced with Nanoclay and Graphene Nanosheets	Ms. Habiba Tanveer
09:15-09:30 AM	Facile synthesis of manganese oxide as A cathode material for oxygen reduction reaction in fuel cell	Ms. Irum Jamil
09:30-09:45 AM	Synthesis, Spectroscopic Analysis, and Antimicrobial Properties of Pure and Copper Doped Cadmium Oxide Nanoparticles	Ms. Nosheen Bibi
09:45-10:00 AM	Optimized ZnS: CoS nanohybrid promising materials as asymmetric supercapacitors	Mr. Hafeez Ur Rehman
10:00-10:15 AM	Microscopic Techniques for Nanomaterials Characterization: A concise Reivew	Mr. Abbas Aziz
10:15-10:30 AM	A Comprehensive Screening of Toxic Heavy Metals in the Water of FATA (Pakistan)	Ms. Riffat Bibi
10:30-10:45 AM	A Review of Sustainable Methods for Synthesizing Zinc Oxide Nanoparticles and Their Applications	Ms. Kandeel Husnain
10:45-11:00 AM	N-doped Graphene Surfaces as an efficient electrochemical sensor-A brief review	Ms. Tayyabah Azam
Tea Break 11:30 AM		

LINKS FOR ONLINE PARTICIPANTS

Join Zoom Meeting Oct 14, 2024

<https://us06web.zoom.us/j/82230849986?pwd=n4gEkiOhMjFP31D5VQkVYw7i6m31HT.1>

Meeting ID: 822 3084 9986

Passcode: 980830

Join Zoom Meeting Oct 15, 2024

<https://us06web.zoom.us/j/83212575348?pwd=p6CCJMtlVcjhSxurdKnOKg1R7DbCcK.1>

Meeting ID: 832 1257 5348

Passcode: 972548

Organizing Committee

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